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From time to time we have given illustrations of improved breeds of horses that have been imported into this country. The French horses and the Cleveland bay have had their share of attention and we come at length to the Scottish Clydesdala.

Horse breeding is one of the most profitable side occupations a farmer can add to his general labors. It cannot be too often urged on agriculturists that American horses, except the trotter, are inferior to those of Europe. They are smaller, lighter and weaker, and in various ways show that they belong to the scrub order.

Moreover, stock-breeding farmers grow rich. Some of the palace homes of the country are owned by men who have made a fortune through the importation, breeding and sale of blooded horses, cattle and sheep. It proves there is no lack of appreciation of fine animals in America.

In the book, "How the Farm Pays," Mr. William Crozier says the Highland Clydesdale is the best horse for farm purposes, in his judgment. The French draft horse appears to be rather the fashionable one in the United States just now. There is no particular reason for it. Mr. Crozier says:

"It has been objected to the Clydesdale that he is slow, but after a trial of different breeds I find that the Clyde horse can plow more acres in a week than any other breed I have used." In two plowing matches Mr. Crozier's Clydes came out first, though in the second

one thirty pairs of horses were entered for



LOCHFERGUS-CLYDESDALE STALLION. The picture shows a fine type of Highland Clyde, owned by McKay Bros., Fort Wayne, He is a bay, with the characteristic white nose and hind feet. It is to be remembered that there are two breeds of Clydesdales-the Highland and the Lowland. The Lowland animal is the enormous draft horse seen at the British docks and wharves drawing trucks. It is too heavy and large for general farm work. Mr. Crozier thinks the Highland Clyde or the Canadian horse the best adapted for all purposes on the farm. He says:

"They are clean in the bone, easy keepers and good walkers. \* \* \* In the horse market of this country nothing is such # hindrance to real sales as want of size. No matter how perfectly the horse may be built, with strong body or short limbs, if he is small he brings only a low price. I think that the Clyde horse, weighing 1,500 or 1,60 pounds, crossed on our native light mares weighing 1,000 or 1,100 pounds, makes one of the most valuable breads for farm work."

The same writer says a horse should not that a sin-where the be less than 6 or 7 years old to do steady ig farm work. Americans are ant to stunt

Jacksonville, Fla., has a vegetable wonder. It is a cabbage which is fourteen feet high

and still growing. Vick's Magazine gave the



A TALL CABBAGE.

It grows in the yard of an old colored aunty. She told a newspaper man: "I planted dat cabbig six yeahs go; I thinks I leaves dat cabbig go to theed second yeah, but it nebah goan to theed yet, and the Lawd only knows when dat cabbig gwine to

Three feet from the ground a branch sprouted out and bore another head.

### The Farmer's Library.

We have been threatening for some time to make out a short list of books that will be valuable to the agriculturist. Farmers than that invested in bank stocks have not much money to spend. They cannot afford to waste any on trash. We therefore make the list short and sweet. By buying and making use of the volumes herein mentioned the farmer and his family will grow richer and happier, if not bealthier and

handsomer. The books can probably be obtained or ordered by every farmer near his own home. We shall mention their names, with the publishers. Then our part is done. It is the publishers' place to advertise them and their

We do not mention the books for the benefit of publishers, but of farmers-our constituents. We may add that every one of them is of tried and approved value.

For general crops, Allen's "New American Farm Book." For vegetable and fruit gardening, Peter Henderson's "Gardening for Profit" and "Gardening for Pleasure." These are in separate volumes. The first treats only of vegetable gardening; the second of fruit, flowers and vegetables. If one can not have both, however, the first named, "Gardening for Profit," will be most strictly

useful to the farmer. Peter Henderson's books are among the clearest and most practical ever written. Then we have "American Grape Growing Prices at the Free Trader Job Bosmann. Burry's "Fruit Garden" is another good one. All the above-named books are published by the Orange Jud-1 company,

Finally there is a new work, called, "How the Farm Pays," by William Crozier and Peter Henderson. If you must confine your purchase this Christmas to one book alone, get this one. It is published by Peter Henderson & Co., New York. It seems to be the model farm book. William Crozier is a money by farming. Henderson is the equally wealthy and successful market gardener. The volume treats of soils, crops, live stock, farm machinery and tools, dairying, vegetable and fruit culture. It is abundantly ilto say that a city man could take this book and by feeling his way cautiously and following its directions closely make a success ful farmer.

All the books in this list are illustrated, except Allen's "New Farm Book." It is rather odd, but there is no good horse book. There are some passable veterinary works. But the publications on horse breeding and manage ment, all there are, go back to the other end of nowhere in horse history, and have scarcely three sentences of live, practical value. Somebody ought to write a good horse book.

To recapitulate the list: Allen's "New American Farm Book."

Peter Henderson's "Gardening for Profit." Peter Henderson's "Gardening for Pleas George Husmann's "American Grape Grow

Barry's "Fruit Garden." (Above books published by Orange Judd company, New York.)

ing and Wine Making.

"How the Farm Pays," by Peter Henderson and William Crozier. (Published by Peter Henderson & Co., New

To Bring Up Worn Out Land. There is much discussion once more on the subject of bringing up the worn out fields and farms of the older states, where bad tillage has ruined them. We have given suggestions on this subject. They cannot be repeated too often, however, as long as there are so many scarred and ruined farms in the country. Nor can it be too strongly emphasized that red clover is the exhausted land's best friend. The method below given can be depended on every time. It is a voice right off the farm:

Have the grubbing done and all washes filled. Plow as soon in the spring as the ground will do, and sow plenty of oats and enough red clover to make a good stand. Let it rest eighteen months. Don't harvest the cats, but let it rot on the ground. It will protect the young clover and keep it from drying out in summer. In the fall of the second year plow it again and sow winter wheat, and in the spring sow red clover. After the wheat is thrashed, spread the straw on the same ground and let it rest again eighteen months or two years. By this time the ground will bring anything that may be planted on it. We never pasture land we cultivate. I think there is more land rumed by pasturing it than any other way; indeed, it is so. I have been living and working on a farm more than thirty years and that is my experience.

Which was the Smart One, the Lawyer or His Wife? [American Daryman]

We listened to the story the other day of a man who was educated to be a lawyer. He tried to practice his profession, but as the proportion of cases to babies was all against him, he decided that he could put that smart little wife of his to some use in the dairy; so he gave up his profession, hirsd a small farm in the ones following you will spell out A a dozen miles from New York city, bought ten or fifteen cows, and went to butter making. His first wise movement was to find private customers for his butter, which, thanks to a smart wife, vas of the finest quality. He soon had it engaged at 80 cents a pound, delivered twice a we k. The demand for this butter at such a price soon outgrew his dairy's capacity, so he is now buying fresh cream from his neighbors, while his wife makes it into 80-cent butter. He has now added to his butter trade the sale of fresh eggs at five cents a piece, each egg stamped with the date it was laid, and thus guaranteed to be perfectly fresh. This man says he intends sticking to an honest course of action, and build up a trade that will stay by him, while he is making far more money than he would have been making if he had stuck to the law.

Swine Fever.

Dr. L. Thomas, in a paper read before the National Swine Breeders' association, contradicts the telief that the swine disease is contactions. He says it is caused by overloading the animals' stomachs, also by bad and irregular feeding and watering. He likewise repudiates the term "hog cholera" as incorrect. He says it should be "swine fever." He thinks he observes that those farmers who feed and water swine irregularly and permit them to gorge themselve on foul or decaying food and impure water have most disease among their herds. He says: "The two chief causes of swine fever are want of information and carelessness among hog raisers." He thinks hogs should have more attention paid to their dietetics.

### Butter, Cheese and Eggs.

[New York Sun.] The statistics laid before the National Butter, Cheese and Egg association at its late meeting in Cnicago must have made its members feel that they were something more important than flies on the country's coachwheel. It was asserted in those statistics that the annual value of dairy products in this country was \$100,000,000 greater than that of the entire wheat crop, and \$130,000, 0.0 greater than that of the coston crop; while the amount of capital interested in cows was said to be greater by \$40,000,000

Things to Do and to Know. For a good stock cow in Colorado prices

have ranged about as follows: 1860, \$10 1870, \$15; 1880, \$25; 1885, \$30. Farmers in the Connecticut valley are ceasing to raise the famous tobacco of that region because it no longer pays.

The governor of Indiana has issued proclamation against cattle from states having pleuro pneumonia in their borders.

Make grape cuttings now. They are more vigorous than they will be after the winter's freezing. Keep them over all spring in a box of right, sandy earth in the celiar.

The National Norman Horse Breeders' association has resolved to drop the word Norman from its name and be known hereafter as the National Association of French Horse

At this season of the year bran is a most excellent food for cows. The tendency at this stage in gestation is to the making of fat and the shrinkage of milk. Bran is a flesh former but not a fat former, and if fed judiciously will correct the above-mentioned tendency. Milk at this season is the most valuable with all spring calving caws, and with a little care and foresight the shrinking tendency spoken of can be avoided and a

## Boys & Girls

Our young friends, when they trample the pure, white snow beneath their feet, probwealthy and successful man, who made his ably do not realize how minute and beautiful the frost particles are which compose each flake and make up the mass.

The best way to examine the delicate crystals is to go out when the large flakes are gently falling, and allow them to light upon plain, practical talks which go right to the understanding of the farmers. The actual and it will not need a magnifying glass to understanding of the authors are set down in see their wonderful formation. Many will see their wonderful formation, and Instrated. The information is in the form of the surface of a piece of black cloth. The plain English. It is probably not too much be found in the shape of our illustration, and yet there will be seen other styles.



When the atmosphere is charged with vapor and becomes chilled, the vapor is condensed and becomes visible in the form of clouds. An accumulation of such vapor forms a dense cloud, and the unison of particles become subject to the laws of gravitation and move downward. If the atmosphere below is not cold the vapor reaches the earth in the form of raindrops, but if the vapor is frozen before condensation takes place we get the fleecy white snow flakes. If the su stance freezes after condensation we

A Good Puzzle.

Here is a very next puzzle to study out, The words upon the envelope appear to have no sense to them or connection.



LETTER PUZZLE.

But if you begin at the right letter, in the right word, and then take every third letter good old saying. It is a maxim by Poor Richard. It begins with the word "indus-We won't tell you any more. It will be more fun to study the rest out your-

A Brooklyn School.

A teacher has just resigned his place in Brooklyn who had been at the head of the same school for many years. His boys and girls had a much pleasanter time than most school children do. Mr. Higgins was strict enough with them, and made them learn their lessons in school up to the mack every time. But after that was done he gave them many outside lessons that nobody but a very good and faithful teacher would have thought of They gained thus knowledge that will be of use to them, and had good times that they will look back to with joy all their lives, no matter what troubles come after.

Of sunny Saturdays Mr. Higgins often took his boys and girls into the country. They had a jolly pienie. Besides that, the teacher taught them to look about them and see how plants grew, and they had lessons in botany and agriculture. The children have a grove of trees of their own in Prospect park, which s the public pleasure ground of Brooklyn. The pupils planted the trees themselves under the direction of their teacher, and to each tree. when it was set out, was given the name of some famous author. They committed to nemory quotations from each author. Thus hey learned literature and arboriculture at he same time. (Look in the dictionary for iterature and arisoriculture.) The children dso sent memorials to the authors on their airthdays, and received from them pleasant letters in return, which are kept among the school treasures

The pupils publish a bright little paper, all their own. They write most of what goes into it themselves. But the best thing perhaps that Mr. Higgans did was to start a school savings bank. The boys and girls thus learn to save money from the start, and get ideas of banking and business. In France it is quite common to have school savings banks. They do great good, and are besides a source of much satisfaction to the children. But this is probably the only school savings bank in America The children put their space change into it and a regular book account was kept. The boys and girls had sums in it ranging from one cent up to \$30. That was the largest amount any one child had. Perhaps it will be the foundation of a fortune.

King of Candy Land.

I had such a lovely dream last night? It was truly so fine and grand! I thought I was king, all alone by myself, Of a land called Condy Land

I dwelt in the great lemon-cocoanut walls Of a palace just to my taste: With its furniture made out of all thing! From taffy to jujube paste!

With rarest of candies at every turn,

drops, And carved out of chocolate!

And oh! 'twas such fun, as I wandered through

Those beautiful rooms alone, To bite off a morsel of sofa or chair Or nibble a bit of throne!

Omnibus Word. The word "meat" has in it twelve other words. They are made by putting any or all of the letters together in different ways. Was can find them!

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